

Chenhui SHEN

Ph.D. in Computer Science (NLP),
Bachelor of Electrical Engineering (Honors),
Minor in Information Security (Computing)

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EDUCATION

National University of Singapore (Ph.D.)

Aug 2020 – Current

School of Computing, Natural Language Processing
CAP: 4.75/5.00

National University of Singapore (Bachelor)

Aug 2016 – Jun 2020

Electrical Engineering (1st class Honors), Minor Information Security (Computing)
Innovation & Design Program (iDP), University Town College Program
CAP: 4.83/5.00

NUS Overseas College

Jan 2020 – Apr 2020

Courses on Business and Innovation at Tel Aviv University, internship at a local startup company

TECHNICAL EXPERIENCE

Natural Language Processing, Natural Language Generation, Pytorch, Programming (Python, C, C++, Javascript, HTML), Deep Learning, Unix, Windows, Excel, Databases (MongoDB, Firebase), Web Development (REACTJS, Vue, Postman)

PUBLICATIONS

- MReD: A Meta-Review Dataset for Structure-Controllable Text Generation (Findings of ACL 2022)
*Chenhui Shen**, Liying Cheng*, Ran Zhou, Lidong Bing, Yang You, Luo Si
- SentBS: Sentence-level Beam Search for Controllable Summarization (EMNLP 2022)
Chenhui Shen, Liying Cheng, Lidong Bing, Yang You, Luo Si
- A Hierarchical Encoding-Decoding Scheme for Abstractive Multi-document Summarization (Findings of EMNLP 2023)
Chenhui Shen, Liying Cheng, Xuan-Phi Nguyen, Yang You, Lidong Bing
- Large Language Models are NOT Yet Human-Level Evaluators for Abstractive Summarization (Findings of EMNLP 2023)
Chenhui Shen, Liying Cheng, Xuan-Phi Nguyen, Yang You, Lidong Bing

INTERNSHIPS

Alibaba Cloud: Singapore

Aug 2020 – Current

- Industrial Ph.D. Program, research collaborations with natural language processing lab under DAMO Academy

National Cybersecurity Lab (IoT Security Intern): Singapore

Jan 2020 – Apr 2020

- Researched and analyzed IoT vulnerabilities, developed IoT testbed with self-developed virtual machine networks, with the aim to enhance enterprise resilience against IoT attacks
- Penetration testing

Iron Drone (Software & Hardware Intern): Tel Aviv, Israel, Startup

Jan 2019 – Jun 2019

- Collaborated with two other teams to increase drone interception rate
 - filtered out false targets, increased accurate sensing distance range by 5 times

- reduced drone recovery time and signal delay time

Garuda Robotics (Software Intern): Singapore, Startup **May 2018 – Aug 2018**

- Designed and implemented Singapore's 1st online drone control interface prototype to be used for developments in Future Flight Consortium for remote flights under CAAS plans
- Presented the online drone control interface at exhibitions (Singtel innov8, Future Flight Consortium)

HACKATHONS AND CASE CHALLENGES

Smart Living Hackathon Best Hack Award: Singapore **Jun 2018**

IEEE-NUS Hackathon Competition: Mind-blowing Hack Award **May 2018**

Singapore Space Challenge 17/18 Merit Award **Aug 2017 – Dec 2017**

AngelHack Top 10 Finalists: San Francisco **Aug 2016**

CCA AND VOLUNTARY EXPERIENCE

AIIESEC Global Volunteer English Teaching: Vietnam **Jul 2019 – Aug 2019**

- Lived together with the student and the volunteer group with a multinational background
- Customized English curriculum for >20 homestay students (aged 12-30)

Vice President, NUS Electrical Computer Engineering (ECE) Club **Aug 2017 – Dec 2017**

- Co-organized Engineering Open House with NUS Engine Club
- Organized and conducted workshop series with NUS professors and student experts (Arduino, Raspberry Pi, 3D printing)
- Raised over \$500 from technical workshops to support Engineering welfare distributions

SEA Games 2015 **May 2015 – Aug 2015**

- **Event Service Officer:** Crowd management during event days to maintain order
- **Ceremonies and Proceedings Officer:** Usher teams of athletes during the opening and closing ceremonies

SCHOOL PROJECTS AND SCHOLASTIC EVENTS

NUS Science and Technology Scholarship (4 years undergraduate) **Aug 2016 – Jun 2020**

Dean's List (3 semesters) **Aug 2017 – Jan 2020**

Duel-environment Propulsion Vehicle Project **Aug 2019 – May 2020**

- Pitched to NUS Enterprise with my team and secured a \$10,000 grant
- Top 10 Finalist at *Pier 71 Smart Port Challenge Accelerator (MPA)*
- Established contacts from various maritime sectors for project support from networking events
- Developed controls and electronics for hull-cleaning vehicle

Virtual Reality for Medical Simulation Project **Jan 2018 – Nov 2018**

- Initiated contact, planned continual meetings with Obstetrics-Gynecology experts
- Obtained approval for observing 7 real-life birth-giving procedures at NUH
- Collaborated with animation designers from *Viswire* (a medical Virtual Reality startup) to incorporate graphics into computer simulations in Unity3D
- Project Treasurer, managed project purchases and funding matters

ADDITIONAL INFORMATION

Languages:

- Chinese (native)
- English (native, since secondary school)
- French (DELF B1 certificate, requirement for working in France)